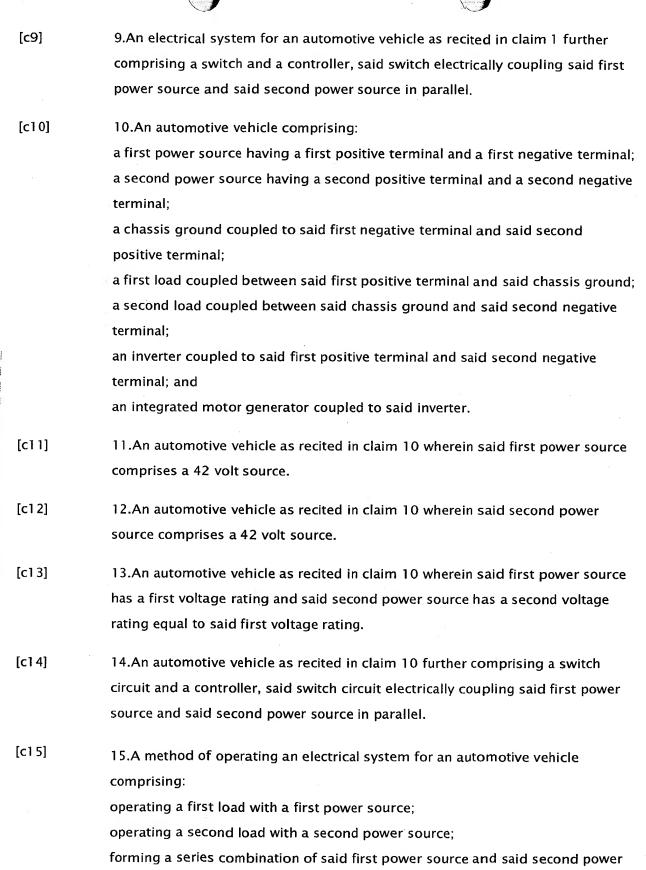
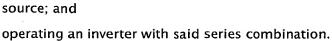


[c1] 1.An electrical system for an automotive vehicle comprising: a first power source having a first positive terminal and a first negative terminal; a second power source having a second positive terminal and a second negative terminal; a common electrical node coupled to said first negative terminal and said second positive terminal: a first load coupled between said first positive terminal and said common node; a second load coupled between said common node and said second negative terminal. [c2] 2.An electrical system for an automotive vehicle as recited in claim 1 further comprising an inverter coupled to said first positive terminal and said second negative terminal. [c3] 3.An electrical system for an automotive vehicle as recited in claim 2 further comprising an integrated motor generator coupled to said inverter. [c4] 4.An electrical system for an automotive vehicle as recited in claim 1 further comprising an inverter coupled to a series combination of said first power source and said second power source. [c5] 5.An electrical system for an automotive vehicle as recited in claim 1 wherein said common node comprises a chassis ground. [c6] 6.An electrical system for an automotive vehicle as recited in claim 1 wherein said first power source comprises a 42 volt source. [c7] 7.An electrical system for an automotive vehicle as recited in claim 1 wherein said second power source comprises a 42 volt source. [c8] 8.An electrical system for an automotive vehicle as recited in claim 1 wherein said first power source has a first voltage rating and said second power source has a second voltage rating equal to said first voltage rating.







- [c16] 16.A method as recited in claim 15 further comprising forming a common node between said first power source, said second power source, said first load and said second load.
- [c17] 17.A method as recited in claim 15 further comprising switching said series combination to a parallel combination in response to a sensed condition.
- [c18] 18.A method as recited in claim 17 wherein said sensed condition comprises a non-motoring mode.